Pacing Calendar Grade: \_\_\_\_3\_\_\_\_ Week 1 Dates: \_\_\_\_\_\_\_\_\_\_\_\_ Unit: \_\_\_\_\_3\_\_\_\_Module B\_\_

**Reading Standard**: 3R.3-Describe the relationship between a series of historical events; scientific ideas or concept or steps in technical procedures in a text, using language that pertains to time, sequence and cause and effect.

**Science Standards**: Earth and Space Science: 3-5  Standard  10-  The Water Cycle1) Describe how water on earth cycles in different forms and in different locations, including underground and in the atmosphere.

**Domain: 3 Instruction Competency**: 3C: Engaging students in learning

Essential Question:

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| ***3 Day lesson*** | **Monday**  **Day1** | **Tuesday**  **Day 2** | **Wednesday**  **Day 3** | **Thursday** | **Friday** |
| **Lesson Title:**  **(Book/pages)** | Weather by Seymour Simon  Pages 1-5 | Weather by Seymour Simon  Pages 6-8 | Weather by Seymour Simon  Pages 9-10 |  |  |
| **Learning Target/Objective:** | The students will be able to describe the different stages in the water cycle. | The students will be able to understand the different stages of the water cycle by creating a model of the water cycle, showing all key components. | The students will learn what a terrarium is, the layers of a terrarium, and the function of these layers. They will see how these components work together to create an ecosystem. |  |  |
| **Key Activities/**  **Student Engagement:** | Activate prior knowledge about water/rain. Where does rain come from?(if they say clouds) How do you think it gets into the clouds? Think- pair-share- Then show a small video: The Water Project” interactive Water Cycle Presentation” Animated activity that lets you control the cycle so the students can understand the steps. | The student will have a handout with the illustration of a wheel that has droplets, clouds and land. They will also have arrows and crayons. They will create the water cycle and color/label the stages. After they have completed the wheel, there will be a zip lock bag attached filled with water. The wheel with the water will hang near window, where the sun will beat on it. As days go by, they will see the water droplets/condensation in the zip lock bag. | The students will be making a terrarium to observe the worms, millipedes, and pill bugs with the teacher. We make one for the whole class. The teacher will model, step by step, the addition of materials into the terrarium. The students will help layer the gravel which is used to drain the water from the soil. Add the leaf litter, which acts as a source of food. c. Add the soil in the container on a slope with one end being higher than the other. d. Place the moss on the higher end of the slope. e. Place worms, millipedes, and pill bugs into the terrarium. f. Mist the soil with the water from the squirt bottle. Place in an undisturbed area for daily observation. |  |  |
| **Assessment:** | Students think individually write their thinking, pair and discuss with partners the stages of the water cycle. (While the teacher goes around, listens and takes conference notes) then the students share with the class. | 3-Minute Pause : The Three-Minute Pause provides a chance for students to stop, reflect on the concepts and ideas that have just been introduced, make connections to prior knowledge or experience, and seek clarification.  1. I became more aware of…..  2. I was surprised about…… | The students will have a graphic organizer to record what happens in relation to the water cycle. |  |  |
| **HOT Questions:**  **(including “thin” to “thick” questions)** | What does the weather on earth have to do with the atmosphere?  Why do we get snow instead of rain in the winter? | How much water is left?  Why do you think the water evaporated? | What can I do if the plants start growing out of control?  How often do you think we need to water the terrarium? |  |  |

**Materials for Terrarium**: 10 gallon fish tank, cover, gravel

Plants, potting soil, squirt bottle, leaves, moss, worms, millipedes, and pill bugs.

**Materials for water cycle activity**: arrows sheet, water wheel with droplets and cloud, crayons and brass fasteners to connect the wheel. ***Mercedes Rotolo P.S90Q***